

```

prepare @all
Kidney2009
kk = [];
fkk = [];

VVIAL=0.0119573;
VMED=0.001;
VINJ=0.0003858 ;
VAIR=VVIAL-VMED;
P1 = 0.69;
TSTOP=1.2; TF=0.; TI=0.2;
PROT = 1.0;

%Human Liver

Liverdata = [0 9.443 4.749 1.663;
0.025 9.345 4.638 1.683;
0.05 8.807 4.644 1.586;
0.1 9.093 4.797 1.358;
0.15 8.551 4.44 1.175;
0.2 7.941 3.617 0.941;
0.225 7.787 3.548 0.881;
0.25 7.308 3.506 0.804;
0.3 7.808 3.477 0.666;
0.35 7.042 3.361 0.556;
0.4 6.606 2.533 0.39;
0.425 6.45 2.534 0.359;
0.45 NaN 2.458 0.319;
0.5 NaN 2.421 NaN;
0.55 5.768 2.463 NaN;
0.6 5.444 1.623 0.133;
0.625 NaN 1.683 0.117;
0.65 NaN 1.734 0.102;
0.7 NaN 1.525 NaN;
0.75 4.624 1.439 NaN;
0.8 4.387 0.92 0.04;
0.825 NaN 1.013 0.035;
0.85 NaN 0.97 0.031;
0.9 NaN 0.867 NaN;
0.95 3.632 0.822 NaN];

for pp = 2:4
    A10 = Liverdata(1, pp)'*(VAIR+P1*VMED);
    VMAX1=0.054;
    KM1=0.45;
    VK = 0.0;
    start @nocallback

        kk = [kk, _ca1];
end % end of dose loop
fkk= [_time, kk];
disp("Human Liver")
%save fkk @format=ascii @file=Hum_Liver_tab3.csv @separator=comma

```

```

%Human Lung
kk=[];
fkk=[];
Lungdata = [
0    37.5  0.38739    1.93135    9.95166;
0.025 37.29192    NaN    NaN    NaN;
0.2    NaN    0.35989    1.81019    9.10727;
0.225 35.33736    NaN    NaN    NaN;
0.4    NaN    0.33592    1.71588    8.43281;
0.425 33.61007    NaN    NaN    NaN;
0.6    NaN    0.31408    1.63196    NaN;
0.625 31.73548    NaN    NaN    NaN;
0.8    NaN    0.2967     1.56269    NaN;
0.825 30.29655    NaN    NaN    NaN];

PROT = 1.0;
for pp = 2:5
    A10 = Lungdata(1, pp)'*(VAIR+P1*VMED);
    VMAX1=0.0;
    KM1=0.0;
    VK = 0.9/1000;
    start @nocallback

    kk = [kk, _ca1];
end % end of dose loop
fkk= [_time, kk];
disp("Human Lung")
%save fkk @format=ascii @file=Hum_lung_tab3.csv @separator=comma

kk=[];
fkk=[];
PROT = 1.0;
VINJ=0.0002
for pp = 2:5
    A10 = Lungdata(1, pp)'*(VAIR+P1*VMED);
    VMAX1=0.405/1000; %units conversion from per gram to per mg
    KM1=0.45;
    VK = 0;
    start @nocallback

    kk = [kk, _ca1];
end % end of dose loop
fkk= [_time, kk];
disp("Human Lung")
%save fkk @format=ascii @file=Hum_Lung_tab3_recalc.csv @separator=comma

```